

WHAT IS CLAIMED IS:

1. A hingeless rotor, in particular for a rotorcraft, comprising: a rotor head (2), a rotor mast (4) having a rotor axis (A), a torque-transmission element (6) nonrotatably joined to the rotor mast, at least one rotor blade (8), and a rotor-head-side rotor-blade connector having a centrifugal-force-discharging blade connector loop (10), which loop encircles the rotor axis (A) or the rotor mast (4) and is nonrotatably joined (12, 14) to the torque-transmission element (6).
2. The rotor as recited in Claim 1,
wherein the blade connector loop (10) extends in the longitudinal direction (L) of the rotor blade (8).
3. The rotor as recited in Claim 1 or 2,
wherein the blade connector loop (10) is self-contained.
4. The rotor as recited in Claim 1 or 2,
wherein the blade connector loop (10) is of open configuration and possesses at least one loop closure element to close the open blade connector loop (10).
5. The rotor as recited in one or more of the aforementioned claims,
wherein the blade connector loop (10) possesses a flattened, strip-shaped loop segment.
6. The rotor as recited in one or more of the aforementioned claims,
wherein the blade connector loop (10) possesses at least two loop portions (10b, 10c) that extend largely in different planes relative to one another and are combined into an loop.
7. The rotor as recited in one or more of the aforementioned claims,
wherein the blade connector loop (10) possesses multiple loop segments extending next to and/or above one another.

8. The rotor as recited in one of more of the aforementioned claims,
wherein the blade connector loop (10) is an integral component of the rotor blade (8).
9. The rotor as recited in one or more of the aforementioned claims, having multiple rotor blades (8),
wherein the blade connector loops (10) of the multiple rotor blades (8) are disposed one above another in the axial direction (A) of the rotor mast (4).
10. The rotor as recited in one or more of the aforementioned claims, having multiple rotor blades (8),
wherein the blade connector loops (10) of the multiple rotor blades (8) are embodied in intersuspended fashion.
11. The rotor as recited in one or more of the aforementioned claims, having multiple rotor blades (8),
wherein the blade connector loops (10) of the multiple rotor blades (8) are joined (14) to one another at at least one point.
12. The rotor as recited in one or more of the aforementioned claims,
wherein the blade connector loop (10) is embodied in the form of a bearing laminate equipped with an orifice, and the rotor axis (A) extends through that orifice.
13. The rotor as recited in one or more of the aforementioned claims,
wherein the blade connector loop (10) possesses at least one joining portion (12), spaced radially away from the axis (A) of the rotor mast (4), at which the blade connector loop (10) is joined to the torque-transmission element (6).
14. The rotor as recited in one or more of the aforementioned claims,
wherein the joining portion is configured as at least one joining tab (12).
15. The rotor as recited in one or more of the aforementioned claims,

wherein the at least one joining tab (12) is disposed in the longitudinal direction (L) of the rotor blade (8) on the side of the blade connector loop (10) facing away from a rotor-blade tip.

16. The rotor as recited in one or more of the aforementioned claims,

wherein the rotor mast (4) extends in unattached fashion in the region of the rotor head (2) through a ring-like centrifugal-force sleeve (16), and the blade connector loop (10) is placed around the centrifugal-force sleeve (16).

17. The rotor as recited in one or more of the aforementioned claims,

wherein an elastic intermediate element is disposed between the ring-like centrifugal-force sleeve (16) and the rotor mast (4).

18. The rotor as recited in one or more of the aforementioned claims,

wherein it is additionally embodied as a bearingless rotor.

19. A rotorcraft, in particular a helicopter, in particular a tiltrotor helicopter, encompassing at least one hingeless rotor as received in one or more of Claims 1 to 18.